

(12) **United States Patent**  
**Hoffman et al.**

(10) **Patent No.:** **US 9,638,483 B1**  
(45) **Date of Patent:** **May 2, 2017**

(54) **AMMUNITION MAGAZINE FOR  
RECIPROCALLY-CYCLED WEAPON**

USPC ..... 89/33.06, 33.16, 33.25  
See application file for complete search history.

(71) Applicants: **Brian Hoffman**, Bangor, PA (US);  
**Alexander Smith**, Long Valley, NJ  
(US); **Hansen Lukman**, Rockaway, NJ  
(US)

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,180,741 A \* 11/1939 Lisov ..... F41A 9/64  
42/50  
2,494,728 A \* 1/1950 Stacey ..... F41A 9/25  
89/33.16  
2,870,675 A \* 1/1959 Salisbury ..... F41B 6/00  
124/3  
4,343,223 A \* 8/1982 Hawke ..... H05H 1/54  
124/3  
4,677,895 A \* 7/1987 Carlson ..... F41B 6/006  
124/3  
4,733,595 A \* 3/1988 Oberly ..... F41B 6/006  
124/3  
4,813,332 A \* 3/1989 Jasper, Jr. .... F41B 6/006  
138/103  
4,858,512 A \* 8/1989 Jasper, Jr. .... F41B 6/006  
124/3  
5,237,904 A \* 8/1993 Kuhlmann-Wilsdorf F41B 6/006  
102/517  
5,419,234 A \* 5/1995 Sanderson ..... B64D 7/00  
89/33.16

(72) Inventors: **Brian Hoffman**, Bangor, PA (US);  
**Alexander Smith**, Long Valley, NJ  
(US); **Hansen Lukman**, Rockaway, NJ  
(US)

(73) Assignee: **The United States of America as  
Represented by the Secretary of the  
Army**, Washington, DC (US)

(\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 129 days.

(21) Appl. No.: **14/659,739**

(22) Filed: **Mar. 17, 2015**

**Related U.S. Application Data**

(60) Provisional application No. 62/026,180, filed on Jul.  
18, 2014.

(51) **Int. Cl.**  
**F41A 9/00** (2006.01)  
**F41A 9/61** (2006.01)  
**F41A 9/79** (2006.01)  
**F41A 7/08** (2006.01)  
**F41A 9/30** (2006.01)

(52) **U.S. Cl.**  
CPC **F41A 9/79** (2013.01); **F41A 7/08** (2013.01);  
**F41A 9/30** (2013.01)

(58) **Field of Classification Search**  
CPC ..... F41A 9/79; F41A 7/08; F41A 9/30

(Continued)

*Primary Examiner* — Samir Abdosh

(74) *Attorney, Agent, or Firm* — John P. DiScala

(57) **ABSTRACT**

An ammunition magazine is used with a reciprocally-cycled weapon for delinking and firing cartridges in close-end linked ammunition belts. The magazine includes a housing with an ammunition indexing mechanism fixed to one side of the housing. A magazine feed box is disposed above the ammunition indexing mechanism. The magazine feed box includes a movable follower having an upper and a lower position and cam pins that engage cam slots in the magazine feed box. The movable follower is configured to receive a cartridge from the weapon.

**11 Claims, 61 Drawing Sheets**

